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ABSTRACT

This guide for school library media specialists presents seven learning outcomes in library media skills that were identified in "The Library Media Program: A Maryland Curricular Framework" and matches them with appropriate library media skills/attitudes. It is noted that these matches produce indicators that are fully integrated to describe activities that lead to the successful achievement of the learning outcomes in all disciplines and promote lifelong learning. The guide begins by providing a rationale for library instruction, noting additional related resources for media specialists produced by the Maryland State Department of Education. The seven outcomes are then listed and briefly described: (1) students will demonstrate the ability to locate and use materials and equipment; (2) they will demonstrate the ability to review, evaluate, and select media for an identified information need; (3) they will demonstrate the ability to learn and apply study, research, reference, and critical thinking skills to organize information; (4) they will demonstrate the ability to comprehend content in various types of media; (5) they will demonstrate the ability to retrieve and manage information; (6) they will demonstrate an appreciation of books and other media as sources of information and recreation; and (7) they will demonstrate the ability to create print and nonprint media. Specific activities are then listed for each of these outcomes and representative subject matches for the library media learning outcomes in mathematics, reading, writing, science, and social studies at different grade levels are shown in a series of 19 charts. Indicators of the successful achievement of each outcome are included in the charts. (Contains 5 references.) (KRN)

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LEARNING OUTCOMES IN LIBRARY MEDIA SKILLS

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LEARNING OUTCOMES IN LIBRARY MEDIA SKILLS

Rationale

The ultimate learning outcome for the school library media program is lifelong learning. A goal of every school library media program is to equip students with the skills that will enable them to continue learning. Documents such as Information Power: Guidelines for School Library Media Programs and Standards for School Library Media Programs in Maryland serve to point out how the school library media program is organized to do this. The AASL paper, "Implementing the National Goals for Education Through School Library Media Programs," identifies major contributions of the school library media program towards achievement of the National Goals for Education. Library media programs make a strong impact on Goal 3.

> *By the year 2000, American students will leave grades four, eight, and twelve having demonstrated competency in challenging subject matter including English, mathematics, science, history, and geography; and every school in America will ensure that all students learn to use their minds well, so they may be prepared for responsible citizenship, further learning, and productive employment in our modern economy.*

A major contribution towards achievement of this goal is made by library media specialists. "Library media specialists, as information specialists, teachers, and instructional consultants, help students develop lifelong learning habits, thinking skills, and the ability to use information effectively." Several examples of regular library media center activities emphasize that the library media center provides a variety of formats for individual learning styles, current sources of information, and cooperatively designed assignments that help students develop thinking and problem solving skills.

The Library Media Program: A Maryland Curricular Framework outlines an organized approach to teaching library media competencies that are applicable to all disciplines, useful in any learning situation, regardless of content. It lists nine goals with descriptive student competencies that identify the skills taught in the library media program. In addition, the framework provides a scope and sequence of these skills and representative curriculum matches. The scope and sequence makes certain that students are introduced to information retrieval skills at the appropriate time and are given sufficient reinforcement to maintain them. Examples of curricular matches correlate specific subject-area goals and objectives with the library media skill that will facilitate learning.

Learning outcomes in library media skills were identified to demonstrate that library media skills are an integral part of the Maryland School Performance Program as they support learning outcomes in mathematics, reading, writing/language usage, social studies, and science. The nine goals in the curricular framework were studied and consolidated to produce seven learning outcomes. Indicators in the curricular areas were identified and matched with an appropriate library media skill/attitude. These matches produced indicators that were fully integrated to describe activities that lead to the successful achievement of the learning outcomes in all disciplines and promote lifelong learning.

Source: "Implementing the National Goals for Education Through School Library Media Programs," Chicago: American Association of School Librarians, 1991.

LEARNING OUTCOMES IN LIBRARY MEDIA SKILLS

Students will demonstrate the ability to locate and use materials and equipment.

Students will know the location of the materials and equipment in a school library media center. They will also understand the organization and utilization of these items. Effective use of the school library media center requires an understanding of its classification system, the characteristics of different media, a demonstrated knowledge of services offered, and appropriate handling of materials and equipment.

Students will demonstrate the ability to review, evaluate, and select media for an identified information need.

Students will effectively review, evaluate, and select media for an identified information need. Through examination of established criteria, the most appropriate source can be obtained.

Students will demonstrate the ability to learn and apply study, research, reference, and critical thinking skills to organize information.

Students will effectively use study, research, reference, and critical thinking skills to organize information in order to solve problems. Frequently, these skills are taught in the classroom and reinforced in the library media center. This learning outcome provides an ideal opportunity to integrate library media skills with indicators from other curricula.

Students will demonstrate the ability to comprehend content in various types of media.

Students will apply comprehension skills to acquire desired information from the wide range of media available through the school library media center.

Students will demonstrate the ability to retrieve and manage information.

Students will use technology in the school library media center and other libraries. Information may be accessed readily through electronic sources. Appropriate skills are vital if the information accessed is to serve the intended purpose.

Students will demonstrate an appreciation of books and other media as sources of information and recreation.

Students will pursue reading for pleasure and enrichment. The unique features of special collections, public, and other libraries are explored as extensions of the school library media center. In addition, they will appreciate literature as a reflection of, and an influence on, the human experience. This outcome relates directly to the reading outcomes that describe "proficient readers as readers who construct, extend, and examine meaning by orienting themselves to various texts and purposes, and by interacting with texts in different ways." The library media specialist and the English Language Arts teacher have the opportunity to work cooperatively to stimulate appreciation of literature.

Valuing books and other media as sources of information and recreation also includes observing copyright laws and the promotion of intellectual freedom as responsibilities in a democratic society.

Students will demonstrate the ability to create print and nonprint media.

Students will produce print and nonprint media. They will explore the processes used to produce different media and develop criteria to determine the appropriate medium for a particular purpose.

LIBRARY MEDIA SKILLS OUTCOME

Students will demonstrate the ability to locate and use materials and equipment.

LIBRARY MEDIA SKILLS/ATTITUDES

Describe the physical arrangement of the library media center.

Identify the library media center catalog and recognize its role in learning.

Use systems of classification and organization to locate materials.

Identify the characteristics of print and nonprint media and related equipment.

Demonstrate appropriate care and handling of materials.

Demonstrate safe operation and care of equipment.

Follow the policies and procedures of the library media center.

LIBRARY MEDIA SKILLS OUTCOME

Students will demonstrate the ability to review, evaluate, and select media for an identified information need.

LIBRARY MEDIA SKILLS/ATTITUDES

Identify and analyze individual purposes for selection of media.

Develop criteria for evaluation of media.

Use criteria to select media for a specific purpose.

LIBRARY MEDIA SKILLS OUTCOME

Students will demonstrate the ability to learn and apply study, research, reference, and critical thinking skills to organize information.

LIBRARY MEDIA SKILLS/ATTITUDES

Use study skills to complete tasks, monitor success, and record and restructure information.

Use research skills to evaluate, select, record, and reorganize information.

Use reference skills to locate information in a variety of sources.

Use critical thinking skills to solve research problems.

LIBRARY MEDIA SKILLS OUTCOME

Students will demonstrate the ability to comprehend content in various types of media.

LIBRARY MEDIA SKILLS/ATTITUDES

Use a variety of sources to acquire information.

Process and evaluate content from a variety of sources by applying comprehension skills.

LIBRARY MEDIA SKILLS OUTCOME

Students will demonstrate the ability to retrieve and manage information.

LIBRARY MEDIA SKILLS/ATTITUDES

Manipulate information using electronic sources.

LIBRARY MEDIA SKILLS OUTCOME

Students will demonstrate an appreciation of books and other media as sources of information and recreation.

LIBRARY MEDIA SKILLS/ATTITUDES

Devote time to read a variety of materials on a regular basis.

Choose reading as a regular leisure time activity.

Use the library media centers, public, and other libraries regularly for reading materials.

Recognize authors, illustrators, publishers, and producers of literature as reflectors of the human experience.

Recognize that literature reflects, examines, and influences the human experience.

Select from a variety of literature forms, genres, and themes.

Participate in literary experiences.

Obtain books and media for personal use.

Share and promote books and media as sources of information and recreation.

Respect the rights of creators of media.

Respect the principles of intellectual freedom.

LIBRARY MEDIA SKILLS OUTCOME

Students will demonstrate the ability to create print and nonprint media.

LIBRARY MEDIA SKILLS /ATTITUDES

Demonstrate knowledge of the process used in developing various types of media.

Discriminate among the various types of media to produce the appropriate medium for a particular purpose.

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to review, evaluate, and select media for an identified information need.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
Identify and analyze individual purposes for selection of media.	**Outcome:** Grade 11 - Students will demonstrate their ability to use technology where appropriate as they solve real world problems. **Indicator** Select the media format most appropriate to solve real world problems using: - print - microfiche - CD-ROM - online database - laserdisc	**Outcome:**	**Outcome:**	**Outcome:** Students will demonstrate the acquisition and integration of major concepts and unifying themes from the life, physical, and earth / space sciences. **Indicator** Identify their need for information and the need to broaden or narrow a topic for a specific purpose.	**Outcome:**

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to review, evaluate, and select media for an identified information need.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
	Outcome:	**Outcome:**	**Outcome:**	**Outcome:** Students will demonstrate the ability to interpret and explain information generated by their exploration of scientific phenomena.	**Outcome:** Students will demonstrate an understanding of geographic concepts and processes as needed to examine the role of culture, technology, and the environment in the location and distribution of human activities.
Use criteria to select media for a specific purpose.				**Indicator** Select and compare various media formats to interpret and explain a specific scientific concept.	**Indicator** Select appropriate media to research effects of pollution, deforestation, and other global problems of geographic dimensions.

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to learn and apply study, research, reference, and critical thinking skills to organize information.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
	Outcome: Grade 3, 5, and 8 - Students will demonstrate their ability to reason mathematically. They will make conjectures, gather evidence, and build arguments.	**Outcome:** Students will judge the usefulness and clarity of the document.	**Outcome:** Students will demonstrate the ability to write effectively to inform by developing and organizing facts to convey information.	**Outcome:**	**Outcome:** Students will demonstrate an understanding of the historical development and current status of principles, institutions, and processes of political systems in Maryland and the United States.
Use research skills to evaluate, select, record, and reorganize information. **Use reference skills to locate information in a variety of sources.**	**Indicator** Apply research skills in gathering evidence from a variety of sources to build a mathematically reasoned argument.	**Indicator** Evaluate the usefulness and clarity of a document by applying appropriate criteria.	**Indicator** Monitor writing to organize facts, details, and ideas into a unified, coherent, written draft.		**Indicator** Use reference skills to locate historical and contemporary cases where government policy or institutions were changed via citizen initiative.

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to learn and apply study, research, reference, and critical thinking skills to organize information.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
	Outcome:	Outcome:	Outcome:	Outcome:	**Outcome:** Students will demonstrate an understanding of history, diversity, and commonality of the peoples of the nation and the world, the reality of human interdependence, the need for global cooperation, and a multicultural perspective. **Indicator** Select, record, and organize information about major contributions of world cultures throughout history.
Use research skills to evaluate, select, record, and reorganize information.					

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to learn and apply study, research, reference, and critical thinking skills to organize information.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
Use critical thinking skills to solve research problems.	**Outcome:**	**Outcome:**	**Outcome:**	**Outcome:** Students will demonstrate ways of thinking and acting inherent in the practice of science. **Indicator** Students will be able to define a specific scientific problem and use information to apply and develop the findings.	**Outcome:**

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to learn and apply study, research, reference, and critical thinking skills to organize information.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
	Outcome:	**Outcome:** Find specific information in a document.	**Outcome:**	**Outcome:** Students will demonstrate the ability to employ the language, instruments, methods, and materials of science for collecting, organizing, interpreting, and communicating information.	**Outcome:**
Use reference skills to locate information in a variety of sources.		**Indicator** Use reference skills to find specific information in a document.		**Indicator** Students will collect, organize, interpret, and communicate information to define, develop and test a scientific problem.	

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to learn and apply study, research, reference, and critical thinking skills to organize information.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
	Outcome:	Outcome:	Outcome:	Outcome:	Outcome: Students will demonstrate an ability -- individually and as part of a group -- to gather information, think critically, and solve problems as needed to facilitate responsible decision–making, to understand complex ideas, and to generate new ideas. <u>Indicator</u> Use research skills to investigate a given social studies topic.
Use study skills to complete tasks, monitor success, and record and restructure information.					

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to retrieve and manage information.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
	Outcome: Grades 3, 5, and 8 - Students will demonstrate their ability to solve problems in mathematics including problems with open-ended answers, problems which are solved in a cooperative atmosphere, and problems which are solved with the use of technology. Grade 11 - Students will demonstrate their ability to use technology where appropriate as they solve real world problems.	**Outcome:**	**Outcome:**	**Outcome:**	**Outcome:** Students will demonstrate an ability -- individually and as part of a group -- to gather information, think critically, and solve problems as needed to facilitate responsible decision–making, to understand complex ideas, and to generate new ideas.
Manipulate information using electronic sources.	<u>Indicator</u> Apply appropriate retrieval strategies from a variety of electronic sources to solve problems in mathematics.				<u>Indicator</u> Use electronic sources to locate data for use in problem solving situations.

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate an appreciation of books and other media as sources of information and recreation.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
Recognize authors, illustrators, publishers, and producers of literature as reflectors of the human experience.	**Outcome:**	**Outcome:** Students will identify author's writing devices. <u>Indicator</u> Identify the author's use of writing devices to communicate the human experience.	**Outcome:**	**Outcome:**	**Outcome:**

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate an appreciation of books and other media as sources of information and recreation.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
	Outcome:	Outcome: Students will compare/contrast with their personal view and experience, the author's view of human experience and character. <u>Indicator</u>	Outcome:	Outcome:	Outcome:
Recognize authors, illustrators, publishers, and producers of literature as reflectors of the human experience.		Recognize authors as reflectors of the human experience by comparing/ contrasting the author's views with one's personal views and experience.			

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate an appreciation of books and other media as sources of information and recreation.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
Recognize that literature reflects, examines, and influences the human experience.	Outcome:	Outcome:	Outcome:	Outcome:	Outcome: Students will demonstrate attainment of a positive self-concept and empathy toward others in order to improve interactions among individuals and groups in our democratic society. <u>Indicator</u> Analyze the influence of mass communication on an individual's perception of the world.

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate an appreciation of books and other media as sources of information and recreation.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
	Outcome:	Outcome: Students will tell how information in a document relates to one's own background knowledge. <u>Indicator</u>	Outcome:	Outcome:	Outcome:
Participate in literary experiences.		Participate in literary experiences by telling how information in a document relates to one's own background knowledge.			

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to create print and nonprint media.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
	Outcome: Grade 11- Students will demonstrate their ability to apply statistical concepts to real world problem solving situations. They should be able to draft inferences, predict from data, apply measures of central tendency, and design, conduct, interpret a statistical experiment and communicate the outcomes. In addition, college-intended students will demonstrate their ability to transform data to aid in interpretation and prediction and to test hypotheses using statistics.	**Outcome:**	**Outcome:** Students will use appropriate style and conventions for a variety of audiences and purposes.	**Outcome:**	**Outcome:** Students will demonstrate an understanding of the history, diversity, and commonality of the peoples of the nation and the world, the reality of human interdependence, the need for global cooperation, and a multicultural perspective.
Discriminate among the various types of media to produce the appropriate medium for a particular purpose.	**Indicator** Create print and/or nonprint media to interpret and communicate mathematical outcomes.		**Indicator** Monitor writing during the prewriting and draft processes to plan and produce a draft that is appropriate for a specific audience and a specific purpose.		**Indicator** Create print or nonprint media to predict how diverse cultural and national groups would respond to world issues.

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to create print and nonprint media.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
	Outcome:	**Outcome:**	**Outcome:** Students will demonstrate the ability to write for various audiences and to address a variety of purposes. Indicator	**Outcome:**	**Outcome:**
Demonstrate knowledge of the process used in developing various types of media.			Defines the purpose of an individual draft to inform, to persuade, or to express personal ideas and applies the appropriate research strategy.		

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to create print and nonprint media.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
Demonstrate knowledge of the process used in developing various types of media.	**Outcome:**	**Outcome:**	**Outcome:** Students will demonstrate the ability to write for various audiences and to address a variety of purposes. Indicator Identifies the audience for an individual draft and plans, produces, and refines the draft accordingly.	**Outcome:**	**Outcome:**

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to comprehend content in various types of media.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
	Outcome: Grades 3, 5 and 8 Students will demonstrate their ability to collect, organize, and display data and will interpret information obtained from displays. They will write reports based on statistical information.	**Outcome:** Students will give possible outcomes of directions.	**Outcome:**	**Outcome:** Students will demonstrate the acquisition and integration of major concepts and unifying themes from the life, physical and earth/ space sciences. Students will demonstrate the ability to interpret and explain information generated by their exploration of scientific phenomena.	**Outcome:**
Process and evaluate content from a variety of sources by applying comprehension skills.	**Indicator** Interpret information displayed in charts, graphs, and tables located in library media resources.	**Indicator** Predict outcome by applying comprehension skills.		**Indicator** Locate and identify varying points of view, distinguish between fact and opinion and draw conclusions from interpreting this information.	

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to comprehend content in various types of media.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
Process and evaluate content from a variety of sources by applying comprehension skills.	**Outcome:**	**Outcome:** Students will identify an author's purpose/ point of view. Students will identify the general meaning of a passage. **Indicator** Use comprehension skills to identify author's purpose/ point of view and the general meaning of a piece of literature.	**Outcome:**	**Outcome:** Students will demonstrate the ability to employ the language, instruments, methods, and materials of science for collecting, organizing, interpreting and communicating information. **Indicator** Locate and identify varying points of view regarding a major concept in earth science. They will be able to compare and contrast these points of view, distinguish between fact and opinion and draw conclusions from interpreting this information.	**Outcome:**

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to comprehend content in various types of media.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
Process and evaluate content from a variety of sources by applying comprehension skills.	**Outcome:**	**Outcome:** Students will identify traits of character. Students will identify plot development. <u>Indicator</u> Use comprehension skills to identify character traits and plot development.	**Outcome:**	**Outcome:**	**Outcome:**

Representative Subject Matches for Library Media Learning Outcomes

LIBRARY MEDIA OUTCOME: Students will demonstrate the ability to comprehend content in various types of media.

LIBRARY MEDIA SKILLS / ATTITUDES	MATHEMATICS	READING	WRITING	SCIENCE	SOCIAL STUDIES
	Outcome:	Outcome:	Outcome:	Outcome:	**Outcome:** Students will demonstrate an understanding of geographic concepts and processes as needed to examine the role of culture, technology, and the environment in the location and distribution of human activities. **Indicator** Interpret maps to locate places, cultural features, and natural features.
Use a variety of sources to acquire information.					

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